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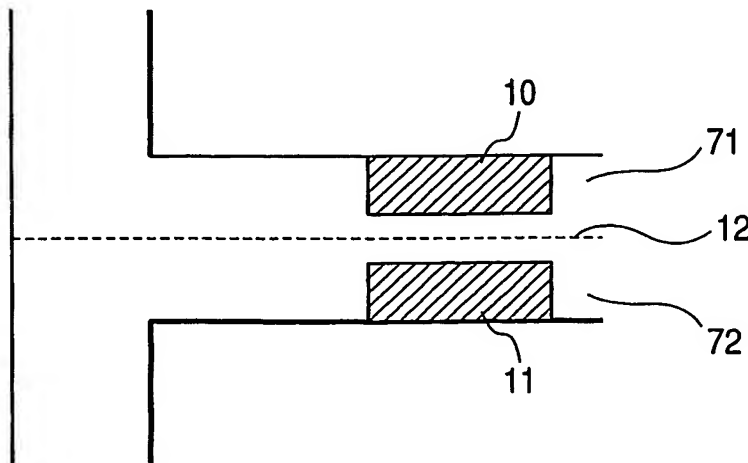
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(54) Title: DETECTING ELEMENT AND DETECTION METHOD



(57) Abstract: A detecting element for detecting a plurality of different substances in a specimen, characterized by including: a channel provided on a substrate, which is capable of forming a plurality of layers of flow of a fluid; and a plurality of different substance trapping portions provided in the channel, for trapping the plurality of different substances in the specimen, respectively, in which: the plurality of different substance trapping portions are provided separately in accordance with the plurality of layers of flow of a fluid to be formed; and the plurality of different substance trapping portions are each arranged to acquire independent information on each of the substances in the specimen through an action between the fluid and the trapped substance.

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N33/543 G01N33/52

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/07653 A (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 1 February 2001 (2001-02-01)	1-6
Y	page 2, line 20 - page 4, line 21 page 5, line 25 - line 27 page 8, line 4 - line 10 page 10, line 18 - page 15, line 16 page 17, line 24 - page 18, line 13 page 24, line 2 - page 25, line 15 page 26, line 13 - line 26 page 35, line 14 - page 39, line 14 claims 1,12 ----- -/--	7-11

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 99/17119 A (UNIVERSITY OF WASHINGTON) 8 April 1999 (1999-04-08) page 2, line 2 - page 3, line 16 page 5, lines 19, 20 page 6, line 7 page 7, line 13 - page 9, line 13 page 12, line 26 - page 13, line 16 page 19 - page 20; examples 1, 2 figures 1, 10</p>	7-11
Y	<p>ROSSIER J S ET AL: "ENZYME LINKED IMMUNOSORBENT ASSAY ON A MICROCHIP WITH ELECTROCHEMICAL DETECTION" LAB ON A CHIP, ROYAL SOCIETY OF CHEMISTRY, CAMBRIDGE, GB, vol. 1, no. 2, December 2001 (2001-12), pages 153-157, XP009030699 ISSN: 1473-0197 page 154, left-hand column, paragraph 1 - right-hand column, paragraph 3; figure 1</p>	7-11
A	<p>SATO K ET AL: "Integration of chemical and biochemical analysis systems into a glass microchip" ANALYTICAL SCIENCES, JAPAN SOCIETY FOR ANALYTICAL CHEMISTRY, TOKYO,, JP, vol. 19, no. 1, January 2003 (2003-01), pages 15-22, XP002980276 ISSN: 0910-6340 page 17; figure 4</p>	
A	<p>KIKUTANI ET AL: "INTEGRATED CHEMICAL SYSTEMS ON MICROCHIPS FOR ANALYSIS AND ASSAY. POTENTIAL FUTURE, MOBILE HIGH-PERFORMANCE DETECTION SYSTEM FOR CHEMICAL WEAPONS" PURE APPL. CHEM., vol. 74, no. 12, 2002, pages 2299-2309, XP002336462 page 2302; figure 3 page 2303; figure 5 page 2306; figure 8</p>	
A	<p>MAO H ET AL: "Design and characterization of immobilized enzymes in microfluidic systems" ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, COLUMBUS, US, vol. 74, no. 2, 15 January 2002 (2002-01-15), pages 379-385, XP002293093 ISSN: 0003-2700 page 384; figure 7 page 383; figure 5</p>	5
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	<p>KOJIMA K ET AL: "ELECTROCHEMICAL PROTEIN CHIP WITH ARRAYED IMMUNOSENSORS WITH ANTIBODIES IMMOBILIZED IN A PLASMA-POLYMERIZED FILMS" ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, COLUMBUS, US, vol. 75, no. 5, 1 March 2003 (2003-03-01), pages 1116-1122, XP001170271 ISSN: 0003-2700 cited in the application page 1116, paragraph 2 - page 1119, paragraph 1</p> <p style="text-align: center;">-----</p>	5

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Information on patent family members

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